

Listing of Claims:

Claims 1-15 (Canceled)

16. (Currently Amended) A method for manipulating a solution along a fluid pathway, said solution having first ions and second ions, said first ions having a first charge polarity and said second ions having a charge polarity opposite said first ions, said method comprising the steps of:

providing a ferroelectric member having a surface;

placing said surface of said ferroelectric member in contact with said solution;

establishing a first electric field to polarize said ferroelectric member in a spontaneous poled state, and create a charge on said surface of said ferroelectric member to draw said first ions in a direction substantially perpendicular to the fluid pathway, towards said surface of said ferroelectric member; [[and]]

establishing a second electric field within said solution substantially parallel to the fluid pathway to create a force on said second ions in the direction of said second electric field and cause said solution to flow in the direction of said second electric field[.]; and

removing said first electric field before establishing said second electric field.

17. (Canceled)
18. (Original) A method as recited in claim 16 further comprising the step of:
- establishing an alternating electric field of decreasing amplitude to depolarize said ferroelectric member to cause said solution to stop flowing in the direction of said second electric field.
19. (Original) A method as recited in claim 16 wherein the magnitude of said first and second electric fields vary with time and have the same angular frequency.